Commonwealth of Massachusetts Executive Office of Health and Human Services



EOHHS
Technology &
Architecture

Integration of Legacy Systems with an Enterprise Service Bus

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The ESB is business integration software infrastructure designed to:

- Provide mediation and connection to applications and channels
- Consume, publish and route messages
- Transform, map and normalize message content
- Monitor and administrate transactions
- · Provide service registration and discovery
- Provide metadata and schema management

Legacy Integration using an ESB is accomplished by:

- · Using 'Wrappers' to
 - Expose internal legacy processing capabilities through web services
 - Expose internal legacy data through web services, queues, and file transfers

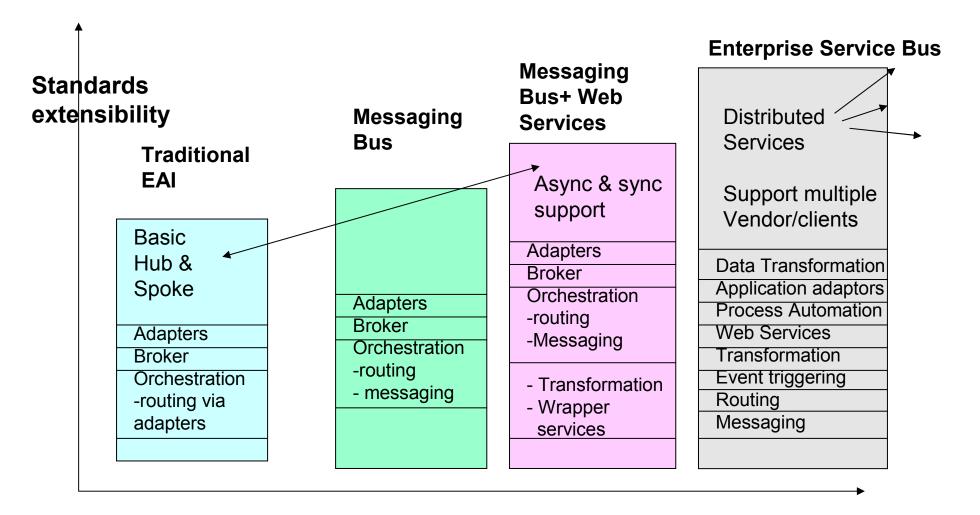
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Service Components

Service Bus

Service Syndication





Evolution of messaging bus

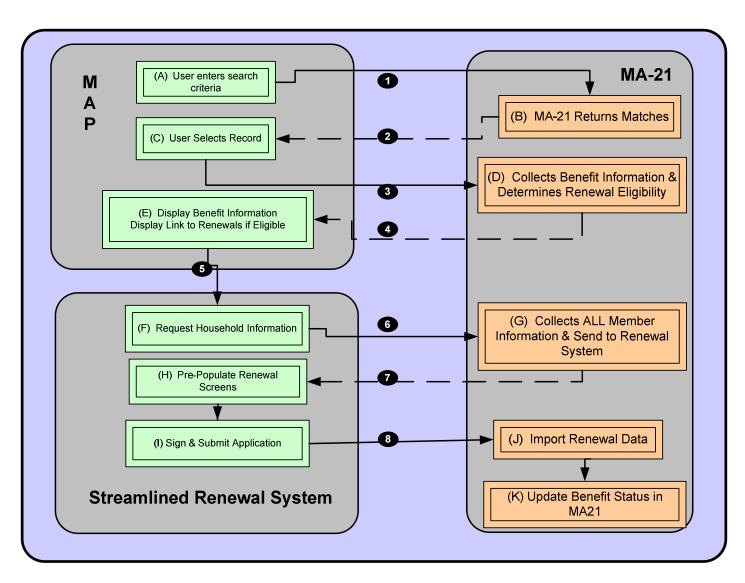
ESB can be described as standards based integration (effectively abstracts: data, function, logic <u>AND</u> the Bus itself)



Subject

Project Focus

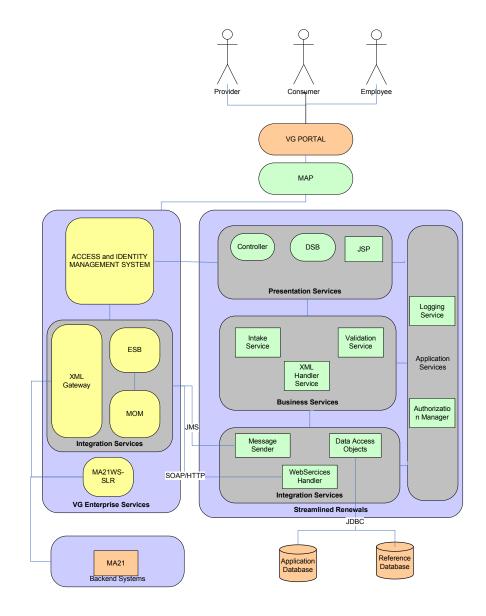








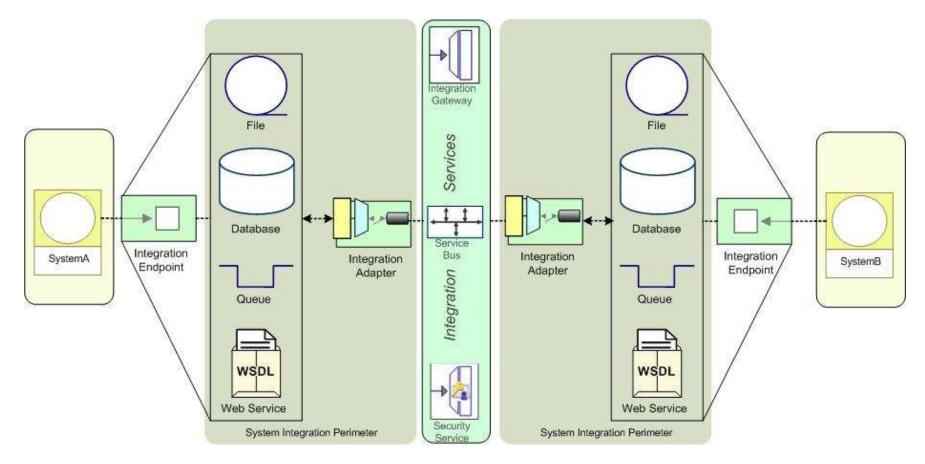
Conceptual Solution View





Subject Reference Architecture





File Transfer Services

Exposed via Web Service Interface Source Destination mediation via Integration Bus

Asynchronous Services

Delivery guaranteed by Integration Bus

Publishing system delivers payload and continues
processing its business functions

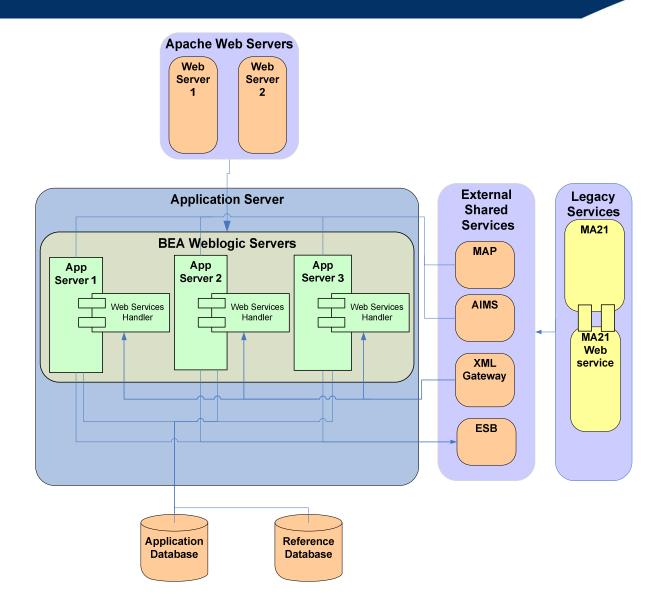
Synchronous Services

System issues requests and goes in wait status Allows Real Time Integration



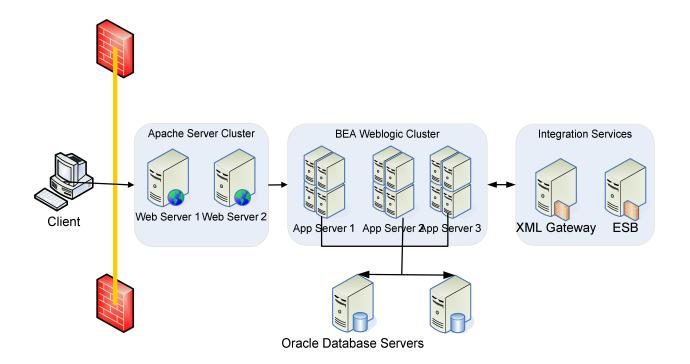
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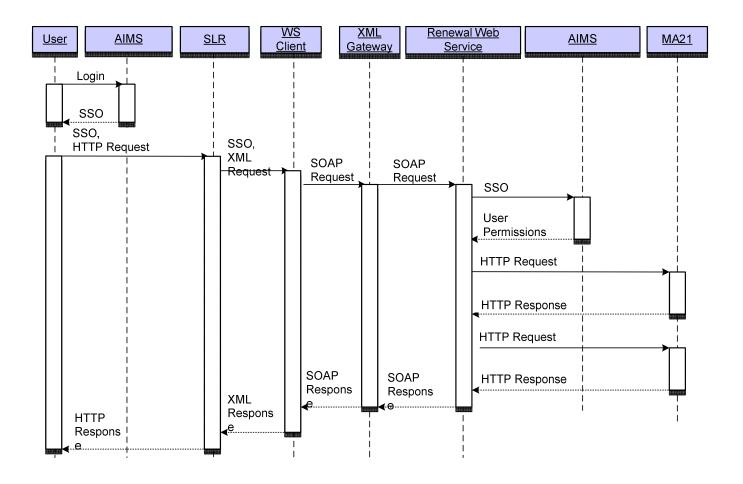






Subject Actual Messaging Flow





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